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# FIBRE BOX INDUSTRY
## United States

ANNUAL REPORT

1 9 9 2

# The Fibre Box Association

The Fibre Box Association represents and provides service to manufacturers of corrugated and solid fibre shipping containers and products.

One of the Association's cornerstone services to its members is the monthly compiling and reporting of industry data to assist in the management of their businesses. Since 1940, FBA has published the Annual Report of United States industry statistics which provides the government and the public, as well as the industry, with an ongoing and accurate reflection of meaningful corrugated industry data.

The Fibre Box Association's current membership (as of March 1993) is listed on page 17 of this report. The 148 member companies manufacture corrugated/solid fibre board and products at 690 plants throughout the United States and Canada.

Other services provided by FBA to the membership include: government relations, labor contract reporting, technical studies, issue seminars/workshops, publications, forecasting and end-use market analysis. Programs are also conducted to meet the unique needs of the three segments of the corrugated industry: independent corrugators, independent sheet plants and integrated companies.

## Contents


Shipments ..... 2
- Value ..... 3
- by Quarter and Month ..... 4
- by Type of Plant ..... 5
- by End Use ..... 6

Corrugated Production ..... 8
Area Shipments ..... 9
- by Quarter, Month and Average Week ..... 10

Containerboard Production ..... 12
Containerboard Consumption ..... 12
Containerboard Inventory ..... 13
Price Index ..... 14
Hours, Earnings, & Productivity ..... 15
Statistical Areas and Glossary ..... 16
Fibre Box Association Members ..... 17


The 1992 Annual Report of the Fibre Box Industry is the 52nd in the series published by the Fibre Box Association (FBA).

The Annual Report is calculated from data submitted by member companies, combined with data from a voluntary survey of non-member companies and expanded by estimates for non-participating companies to provide the most accurate data on the aggregate United States (48 contiguous states) industry. All shipment data represents finished products. The Producer Price Index (PPI) is based on FBA member data only.

Additional information for this report has been provided by the American Forest and Paper Association, the U.S. Department of Commerce and the Bureau of Labor Statistics of the U.S. Department of Labor.

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# Statistical Highlights

### Shipments

For the seventh consecutive year **total** shipments of corrugated and solid fibre products set a record — over 335 billion square feet, representing a 4.9% increase from 1991.

The **value** of shipments also was at a new high, $16.6 billion, 7.7% greater than 1991.

The 1992 **growth** in shipments occurred across all FBA areas with the West having the largest growth rate of 1992, 10.3%, and now accounting for 17.2% of all U.S. shipments.

**End-use** of corrugated shipments in 1992 reflects some shift from the classification miscellaneous manufacturing to glass, metal and non-metallic mineral products. End-use data was provided by 38 FBA member companies, representing 442 plants and is 67% of all shipments. This is a continuation of the growing participation in the end-use reporting.

### Production

The average corrugator plant manufactured 572 million square feet of combined board in 1992 as compared to 541 million square feet in 1991.

This production reflected a slight change in mix. Single face increasing from 0.7% of the total in 1991 to 1.1% in 1992 with the single wall share decreasing between years by 0.4%. Both double wall and triple wall retained their portion of the production with 8.3% and 0.3% respectively.

The average basis weight of produced corrugated board returned to the 1989–1990 level of 139.6 pounds per thousand square feet.

### Containerboard

U.S. paperboard mills **produced** 25.7 million tons of containerboard primarily to supply domestic corrugator plants. The U.S. Department of Commerce reported that an additional 504,200 thousand tons were imported into the United States.

Corrugator plants **consumed** 25.2 million tons of containerboard to produce combined board.

Combined **inventory** levels of corrugator plants and mills, relative to consumption, remained the same between the end of 1992 and the end of 1991 at 5.9 weeks of supply.

### Price Index

In 1992 the Corrugated Price Index rose by 2.1% as compared to a 1.2% increase for the Producer Price Index using 1967 as a base year.

### Hours, Earnings and Productivity

Overall productivity rose significantly in 1992 to 2,370 square feet per production man-hour.

The number of production related employees in the industry continued to decrease to 67,573. The average employee hours per week increased to 40.1 and average total hourly earnings rose to $12.31.

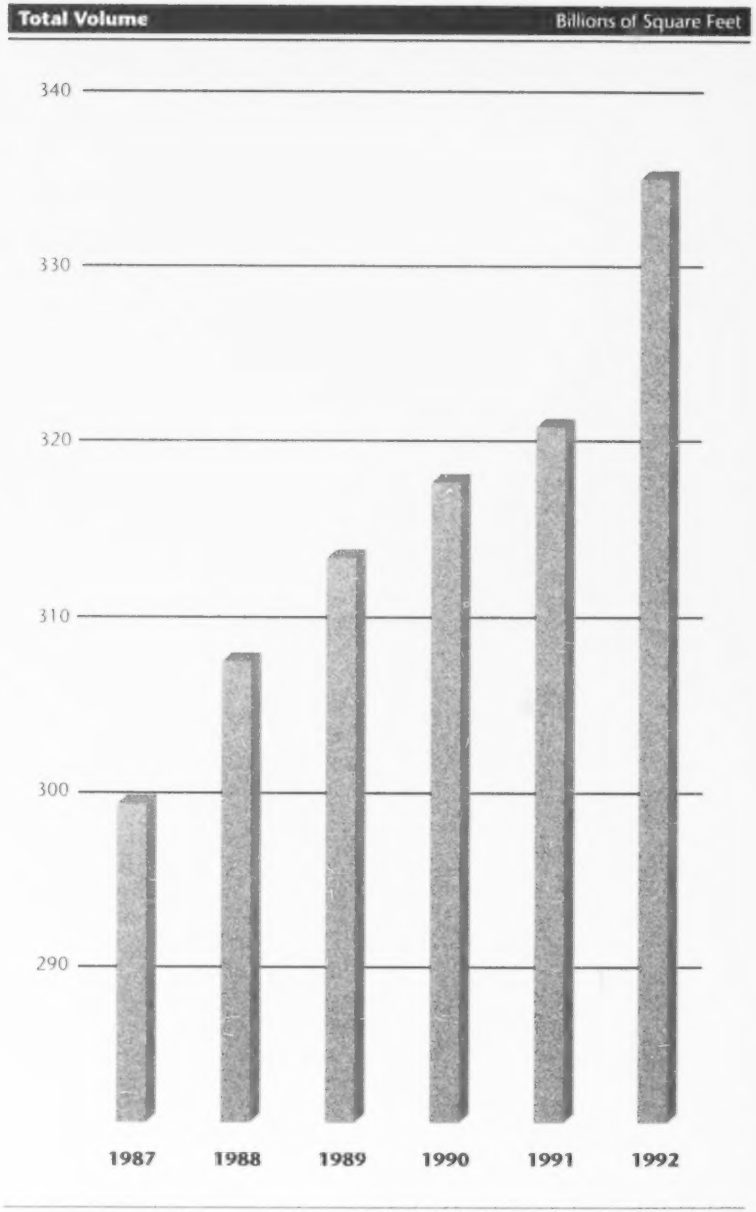
### Plants

During 1992, 1,547 industry plants were in operation, 630 corrugator plants and 917 sheet plants.

# Shipments

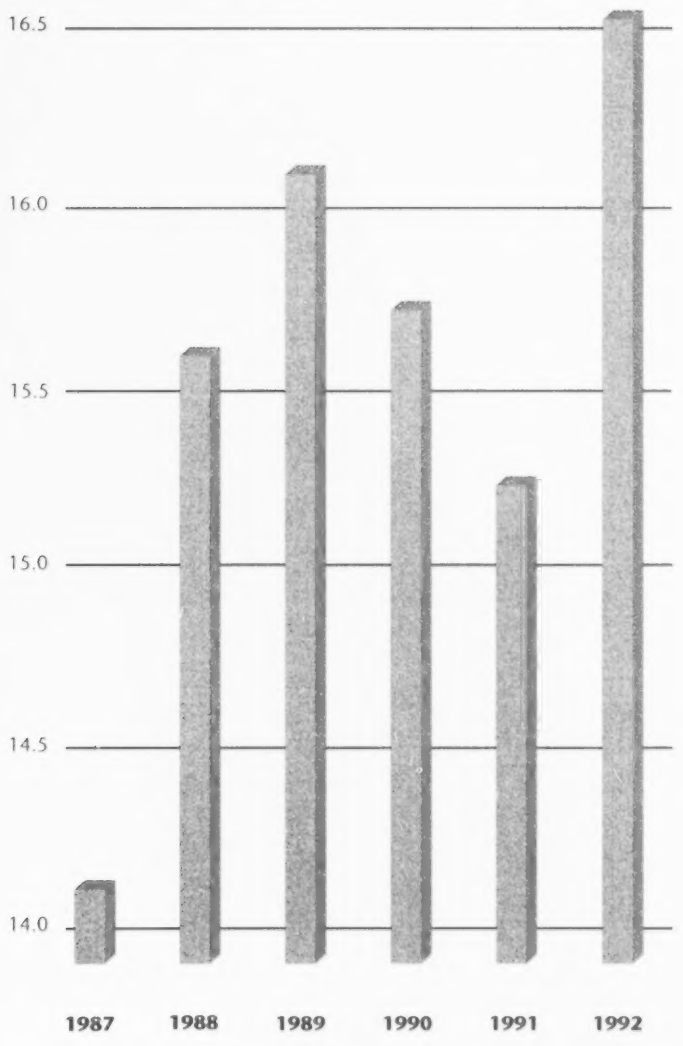
Billions of Square Feet

| Year | Total | Corrugated | Solid Fibre | Year to Year Growth |
|---|---|---|---|---|
| 1940 | 36.111 | 33.847 | 2.264 | --- |
| 1950 | 78.393 | 76.022 | 2.371 | --- |
| 1960 | 108.931 | 107.676 | 1.255 | --- |
| 1970 | 184.865 | 183.761 | 1.104 | - 0.4% |
| 1971 | 191.832 | 190.756 | 1.076 | + 3.8% |
| 1972 | 211.926 | 210.880 | 1.046 | + 10.5% |
| 1973 | 228.052 | 226.984 | 1.068 | + 7.6% |
| 1974 | 216.072 | 215.119 | .953 | - 5.3% |
| 1975 | 194.329 | 193.573 | .756 | - 10.1% |
| 1976 | 216.371 | 215.565 | .806 | + 11.3% |
| 1977 | 227.198 | 226.360 | .838 | + 5.0% |
| 1978 | 243.898 | 242.999 | .899 | + 7.4% |
| 1979 | 250.643 | 249.701 | .942 | + 2.8% |
| 1980 | 241.377 | 240.490 | .887 | - 3.7% |
| 1981 | 246.152 | 245.331 | .821 | + 2.0% |
| 1982 | 235.185 | 234.306 | .879 | - 4.5% |
| 1983 | 252.539 | 251.618 | .921 | + 7.4% |
| 1984 | 267.547 | 266.565 | .982 | + 5.9% |
| 1985 | 267.453 | 266.490 | .963 | 0.0% |
| 1986 | 283.921 | 282.852 | 1.069 | + 6.2% |
| 1987 | 297.828 | 296.818 | 1.010 | + 4.9% |
| 1988 | 308.509 | 307.464 | 1.045 | + 3.6% |
| 1989 | 313.398 | 312.343 | 1.055 | + 1.6% |
| 1990 | 318.102 | 316.688 | 1.414 | + 1.5% |
| 1991 | 320.106 | 318.701 | 1.405 | + 0.6% |
| 1992 | 335.696 | 334.219 | 1.477 | + 4.9% |



# Value of Shipments

**Total Value** — Billions of Dollars

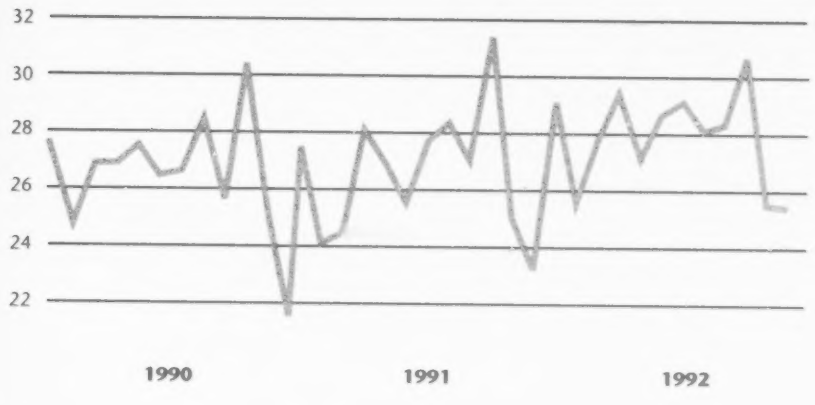



| Year | Total | Corrugated | Solid Fibre | Year to Year Growth |
|---|---|---|---|---|
| 1940 | $ 231,082,800 | $ 211,339,000 | $19,743,800 | --- |
| 1950 | 1,054,502,400 | 995,454,100 | 59,048,300 | --- |
| 1960 | 1,791,171,100 | 1,746,525,600 | 44,645,500 | --- |
| 1970 | 3,341,044,100 | 3,298,364,600 | 42,679,500 | + 0.6% |
| 1971 | 3,463,680,200 | 3,422,262,100 | 41,418,100 | + 3.7% |
| 1972 | 3,959,924,500 | 3,919,862,900 | 40,061,600 | + 14.3% |
| 1973 | 4,862,056,300 | 4,815,486,600 | 46,569,700 | + 22.8% |
| 1974 | 5,792,984,900 | 5,742,301,300 | 50,683,600 | + 19.1% |
| 1975 | 5,623,765,200 | 5,578,612,500 | 45,152,700 | - 2.9% |
| 1976 | 6,443,938,300 | 6,395,870,800 | 48,067,500 | + 14.6% |
| 1977 | 6,741,744,100 | 6,691,170,000 | 50,574,100 | + 4.6% |
| 1978 | 7,260,097,300 | 7,204,311,000 | 55,786,300 | + 7.7% |
| 1979 | 8,407,894,000 | 8,344,624,600 | 63,269,400 | + 15.8% |
| 1980 | 9,075,381,800 | 9,010,411,600 | 64,970,200 | + 7.9% |
| 1981 | 10,019,521,200 | 9,956,771,000 | 62,750,200 | + 10.4% |
| 1982 | 9,343,619,900 | 9,278,989,700 | 64,630,200 | - 6.7% |
| 1983 | 9,845,258,200 | 9,778,198,700 | 67,059,500 | + 5.4% |
| 1984 | 11,567,050,900 | 11,491,431,700 | 75,619,200 | + 17.5% |
| 1985 | 11,486,830,500 | 11,413,175,600 | 73,654,900 | - 0.7% |
| 1986 | 11,753,044,200 | 11,673,330,200 | 79,714,000 | + 2.3% |
| 1987 | 14,097,324,600 | 14,014,909,400 | 82,415,200 | + 19.9% |
| 1988 | 15,627,005,100 | 15,538,736,900 | 88,268,200 | + 10.9% |
| 1989 | 16,157,184,000 | 16,066,698,700 | 90,485,300 | + 3.4% |
| 1990 | 15,800,619,300 | 15,695,267,200 | 105,352,100 | - 2.2% |
| 1991 | 15,367,412,000 | 15,264,548,700 | 102,863,300 | - 2.7% |
| 1992 | 16,553,361,300 | 16,447,281,700 | 106,079,600 | + 7.7% |

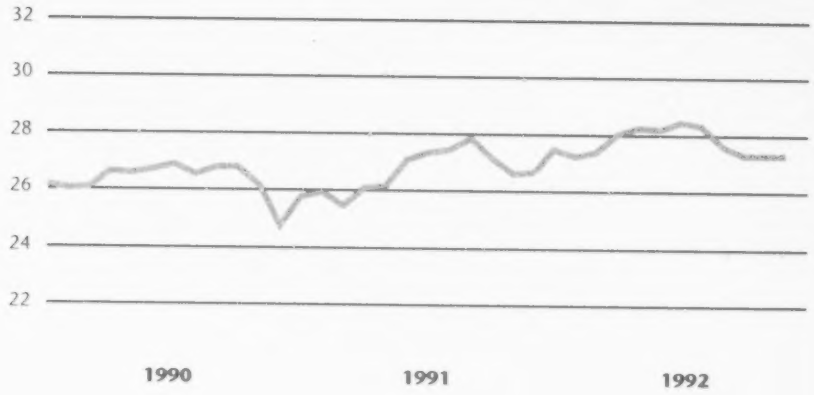
# Shipments by Month & Quarter

Billions of Square Feet

**Shipments by Month** — Billions of Square Feet



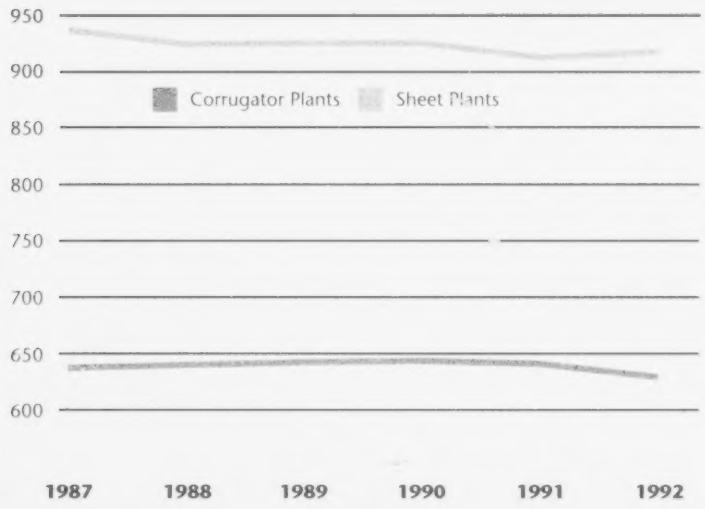

**Seasonally Adjusted Shipments by Month** — Billions of Square Feet



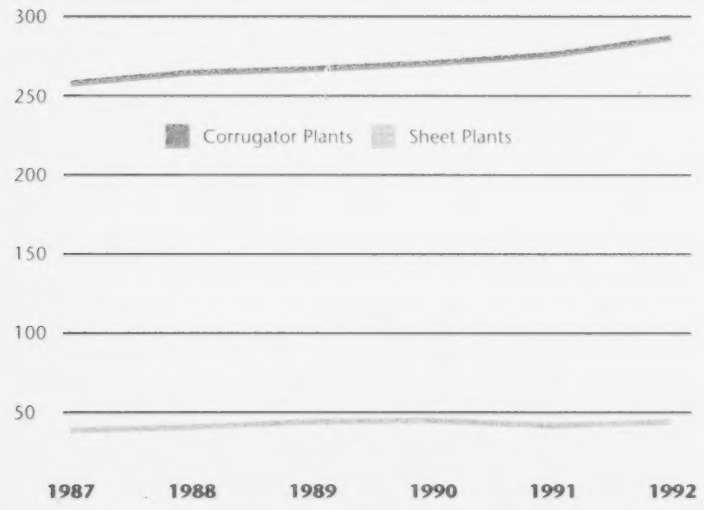

| | Jan | Feb | Mar | 1st Qtr | Apr | May | Jun | 2nd Qtr | Jul | Aug | Sep | 3rd Qtr | Oct | Nov | Dec | 4th Qtr | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1990 | | | | | | | | | | | | | | | | | |
| Average Week | 6.320 | 6.089 | 6.112 | 6.176 | 6.718 | 6.272 | 6.312 | 6.427 | 6.351 | 6.155 | 6.736 | 6.395 | 6.686 | 6.287 | 5.994 | 6.351 | 6.337 |
| Actual | 27.806 | 24.357 | 26.893 | 79.056 | 26.873 | 27.595 | 26.512 | 80.980 | 26.675 | 28.313 | 25.595 | 80.583 | 30.756 | 25.149 | 21.578 | 77.483 | 318.102 |
| Seasonally Adjusted | 26.369 | 26.148 | 26.105 | 79.427 | 26.742 | 26.724 | 26.891 | 79.938 | 27.197 | 26.638 | 26.956 | 79.685 | 26.913 | 26.221 | 24.871 | 79.032 | --- |
| 1991 | | | | | | | | | | | | | | | | | |
| Average Week | 6.237 | 6.035 | 6.127 | 6.137 | 6.369 | 6.126 | 6.431 | 6.305 | 6.630 | 6.432 | 6.796 | 6.614 | 6.817 | 6.621 | 5.865 | 6.450 | 6.377 |
| Actual | 27.443 | 24.141 | 24.509 | 76.093 | 28.023 | 26.953 | 25.724 | 80.700 | 27.847 | 28.301 | 27.185 | 83.333 | 31.358 | 25.161 | 23.461 | 79.980 | 320.106 |
| Seasonally Adjusted | 25.831 | 25.927 | 25.557 | 76.976 | 26.104 | 26.168 | 27.081 | 79.518 | 27.347 | 27.426 | 27.831 | 82.150 | 27.239 | 26.668 | 26.748 | 81.417 | --- |
| 1992 | | | | | | | | | | | | | | | | | |
| Average Week | 6.631 | 6.417 | 6.361 | 6.427 | 7.011 | 6.280 | 6.512 | 6.761 | 6.629 | 6.678 | 6.722 | 6.676 | 7.006 | 6.479 | 6.384 | 6.731 | 6.661 |
| Actual | 29.177 | 25.246 | 27.082 | 82.910 | 29.345 | 27.118 | 28.652 | 85.215 | 29.166 | 28.048 | 28.233 | 85.447 | 30.826 | 25.762 | 25.536 | 82.124 | 335.696 |
| Seasonally Adjusted | 27.551 | 27.230 | 27.492 | 81.872 | 28.016 | 28.277 | 28.201 | 83.967 | 28.510 | 28.314 | 27.816 | 84.624 | 27.624 | 27.674 | 27.682 | 83.600 | --- |
| Seasonal Adjustment | 1.0590 | 0.9441 | 1.0180 | 0.9885 | 1.0510 | 0.950 | 1.0160 | 1.0148 | 1.0230 | 0.9906 | 1.0150 | 1.0144 | 1.1159 | 0.9389 | 0.9223 | 0.9823 | |

# Shipments by Type of Plant

**Number of Plants**




**Shipments by Type of Plant** — Billions of Square Feet



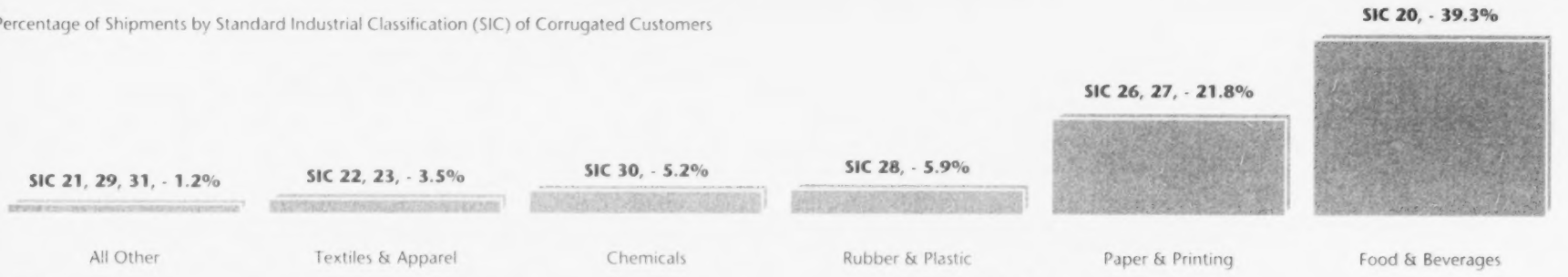

| Year | Total | | Corrugators | | | Sheet Plants | | |
|---|---|---|---|---|---|---|---|---|
| | Billions of Square Feet | Number of Plants | Billions of Square Feet | Percent of Total | Number of Plants | Billions of Square Feet | Percent of Total | Number of Plants |
| 1940 | 36.111 | 355 | 33.157 | 91.8 | 242 | 2.954 | 8.2 | 113 |
| 1950 | 78.393 | 481 | 73.986 | 94.4 | 304 | 4.407 | 5.6 | 177 |
| 1960 | 108.931 | 812 | 98.991 | 90.9 | 428 | 9.940 | 9.1 | 384 |
| 1970 | 184.865 | 1,294 | 163.230 | 88.3 | 623 | 21.635 | 11.7 | 671 |
| 1971 | 191.832 | 1,323 | 168.870 | 88.0 | 615 | 22.962 | 12.0 | 708 |
| 1972 | 211.926 | 1,324 | 184.452 | 87.0 | 614 | 27.474 | 13.0 | 710 |
| 1973 | 228.052 | 1,330 | 198.646 | 87.1 | 607 | 29.406 | 12.9 | 723 |
| 1974 | 216.072 | 1,358 | 189.015 | 87.5 | 619 | 27.057 | 12.5 | 739 |
| 1975 | 194.329 | 1,385 | 170.635 | 87.8 | 634 | 23.694 | 12.2 | 751 |
| 1976 | 216.371 | 1,427 | 188.694 | 87.2 | 645 | 27.677 | 12.8 | 782 |
| 1977 | 227.198 | 1,450 | 197.311 | 86.8 | 654 | 29.887 | 13.2 | 796 |
| 1978 | 243.898 | 1,449 | 211.661 | 86.8 | 654 | 32.237 | 13.2 | 795 |
| 1979 | 250.643 | 1,460 | 217.105 | 86.6 | 649 | 33.538 | 13.4 | 811 |
| 1980 | 241.377 | 1,422 | 210.868 | 87.4 | 633 | 30.509 | 12.6 | 789 |
| 1981 | 246.152 | 1,427 | 214.971 | 87.3 | 631 | 31.181 | 12.7 | 796 |
| 1982 | 235.185 | 1,376 | 206.799 | 87.9 | 623 | 28.386 | 12.1 | 753 |
| 1983 | 252.539 | 1,370 | 221.652 | 87.8 | 614 | 30.887 | 12.2 | 756 |
| 1984 | 267.547 | 1,429 | 233.635 | 87.3 | 615 | 33.912 | 12.7 | 814 |
| 1985 | 267.453 | 1,460 | 233.518 | 87.3 | 630 | 33.935 | 12.7 | 830 |
| 1986 | 283.921 | 1,495 | 247.007 | 87.0 | 643 | 36.914 | 13.0 | 852 |
| 1987 | 297.628 | 1,576 | 257.838 | 86.6 | 639 | 39.990 | 13.4 | 937 |
| 1988 | 308.509 | 1,562 | 266.119 | 86.3 | 640 | 42.390 | 13.7 | 922 |
| 1989 | 313.398 | 1,566 | 269.011 | 85.8 | 642 | 44.387 | 14.2 | 924 |
| 1990 | 318.102 | 1,567 | 273.345 | 85.9 | 643 | 44.757 | 14.1 | 924 |
| 1991 | 320.106 | 1,551 | 277.432 | 86.7 | 639 | 42.674 | 13.3 | 912 |
| 1992 | 335.696 | 1,547 | 289.046 | 86.1 | 630 | 46.650 | 13.9 | 917 |

# Shipments by End Use Industry



**Shipments to Nondurable Goods Industries** — 76.9% Share of Total Shipments

Percentage of Shipments by Standard Industrial Classification (SIC) of Corrugated Customers




| MAJOR SIC GROUP* | MANUFACTURING INDUSTRIES | 1990 - 63.3% 28 Companies - 406 Plants | | 1991 - 63.8% 32 Companies - 421 Plants | | 1992 - 67.0% 38 Companies - 442 Plants | |
|---|---|---|---|---|---|---|---|
| 20 | Food and Kindred Products (except 201,202,203,205,206,208 and Fresh Fruits and Vegetables) | 10.5% | | 10.5% | | 10.3% | |
| 201 | Meat Products | 6.9 | | 7.3 | | 7.2 | |
| 202 | Dairy Products | 3.6 | | 2.3 | | 2.5 | |
| 203 | Canning and Preserving Fruits, Vegetables, and Sea Foods | 5.6 | 37.8% | 5.1 | 39.6% | 4.9 | 39.3% |
| 205 | Bakery Products | 2.0 | | 2.0 | | 2.1 | |
| 206 | Confectionary and Related Products | 1.2 | | 1.2 | | 1.2 | |
| 208 | Beverages | 4.0 | | 3.9 | | 3.2 | |
| **950 | Fresh Fruits and Vegetables | 4.0 | | 7.3 | | 7.9 | |
| 21 | Tobacco | | .4 | | .3 | | .4 |
| 22 | Textile Mill Products (except 227) | 1.6 | 1.7 | 1.6 | 1.7 | 1.4 | 1.5 |
| 227 | Floor Covering Mills | .1 | | .1 | | 1 | |
| 23 | Apparel and Other Finished Products made from Fabrics and Similar Materials | | 1.6 | | 1.6 | | 2.0 |
| 26 | Paper and Allied Products | | 21.3 | | 21.0 | | 19.8 |
| 27 | Printing, Publishing, and Allied Industries (except 273) | 1.2 | 1.5 | 1.1 | 1.4 | 1.6 | 2.0 |
| 273 | Books | .3 | | .3 | | .4 | |
| 28 | Chemicals and Allied Products (except 282,283,284 and 285) | 2.0 | | 1.3 | | 1.4 | |
| 282 | Plastics Materials and Synthetic Resins, Synthetic Rubber, Synthetic and Other Man-Made Fibers, Except Glass | 1.3 | 6.5 | 1.2 | 5.8 | 1.1 | 5.9 |
| 283 | Drugs | .8 | | .6 | | .7 | |
| 284 | Soap, Detergents and Cleaning Preparations, Perfumes, Cosmetics and Other Toilet Preparations | 2.1 | | 2.4 | | 2.4 | |
| 285 | Paints, Varnishes, Lacquers, Enamels and Allied Products | .3 | | .3 | | .3 | |
| 29 | Petroleum Refining and Related Industries (except 295) | .7 | .7 | .5 | .5 | .6 | .6 |
| 295 | Paving and Roofing Materials | .0 | | .0 | | .0 | |
| 30 | Rubber and Miscellaneous Plastics Products (except 307) | .9 | 5.2 | 1.6 | 4.9 | 2.6 | 5.2 |
| 307 | Miscellaneous Plastics Products | 4.3 | | 3.3 | | 2.6 | |
| 31 | Leather and Leather Products | | .2 | | .3 | | .2 |
| | Sub-Total, Nondurable Goods | | 76.9 | | 77.2 | | 76.9 |

*Standard Industrial Classification. **This number was arbitrarily assigned; not in accordance with Standard Classification Manual.
The sample as reported here, based on the number of companies indicated in the column headings, will not conform exactly to a complete analysis of sales. The percentage shown should be considered as indicators and not exact proportions. Differences in percentages from year to year can be caused by changes in the list of participating companies. Shipments to sheet plants and jobbers are not included. Companies included in the tabulation operate plants in all areas of the country.

# Shipments by End Use Industry

**Shipments to Durable Goods Industries** — 21.9% Share of Total Shipments

Percentage of Shipments by Standard Industrial Classification (SIC) of Corrugated Customers

| MAJOR SIC GROUP* | | MANUFACTURING INDUSTRIES | 1990 - 63.3% 28 Companies - 406 Plants | 1991 - 63.8% 32 Companies - 421 Plants | 1992 - 67.0% 38 Companies - 442 Plants |
|---|---|---|---|---|---|
| 24 | | Lumber and Wood Products, Except Furniture | 1.2% | 1.2% | 1.3% |
| 25 | | Furniture and Fixtures (except 251) | 1.2% | 1.0% | 1.2% |
| | 251 | Household Furniture | 1.1 — 2.3 | 1.2 — 2.2 | 1.0 — 2.2 |
| 32 | | Stone, Clay, and Glass Products (except 322,326,and 329) | .8 | .8 | .6 |
| | 322 | Glass and Glassware, Pressed or Blown | 1.7 | 2.9 | 3.3 |
| | 326 | Pottery and Related Products | .2 — 3.0 | .2 — 4.1 | .2 — 5.1 |
| | 329 | Abrasive, Asbestos and Misc. Nonmetallic Mineral Products | .3 | .2 | 1.0 |
| 33 | | Primary Metal | .7 | .5 | .5 |
| 34 | | Fabricated Metal Products, Except Ordnance, Machinery and Transportation Equipment (except 341) | 2.3 | 2.0 | 2.6 |
| | 341 | Metal Cans | .2 — 2.5 | .2 — 2.2 | .2 — 2.8 |
| 35 | | Machinery, Except Electrical (except 358) | 1.3 | 1.2 | 1.3 |
| | 358 | Service Industry Machines | .3 — 1.6 | .4 — 1.6 | .3 — 1.6 |
| 36 | | Electrical Machinery, Equipment and Supplies (except 363,364,365,and 366-367) | 1.0 | .7 | .8 |
| | 363 | Household Appliances | 1.4 | 1.5 | 1.2 |
| | 364 | Electric Lighting and Wiring Equipment | .6 — 3.5 | .7 — 3.4 | .8 — 3.4 |
| | 365 | Radio and TV Receiving Sets, Except Communication Types | .3 | .3 | .4 |
| | 366-367 | Communication Equipment and Electronic Components and Accessories | .2 | .2 | .2 |
| 37 | | Transportation Equipment (except 371) | .7 | .4 | .4 |
| | 371 | Motor Vehicles and Motor Vehicle Equipment | .7 — 1.4 | 1.0 — 1.4 | .9 — 1.3 |
| 38 | | Professional, Scientific, and Controlling Instruments; Photographic and Optical Goods; Watches and Clocks | .9 | .8 | .8 |
| 39 | | Miscellaneous Manufacturing (except 394) | 4.9 | 4.1 | 2.0 |
| | 394 | Toys, Amusement, Sporting and Athletic Goods | .6 — 5.5 | .9 — 5.0 | .9 — 2.9 |
| | | Sub-Total, Durable Goods | 22.6 | 22.4 | 21.9 |
| | | Sub-Total, Durable Goods | 22.6 | 22.4 | 21.9 |
| | | Sub-Total, Nondurable Goods | 76.9 | 77.2 | 76.9 |
| 42 | | Motor Freight Transportation and Warehousing | .5 | .4 | .4 |
| 90 | | Government | .0 | .0 | .8 — 1.2 |
| | | TOTAL | 100.0% | 100.0% | 100.0% |

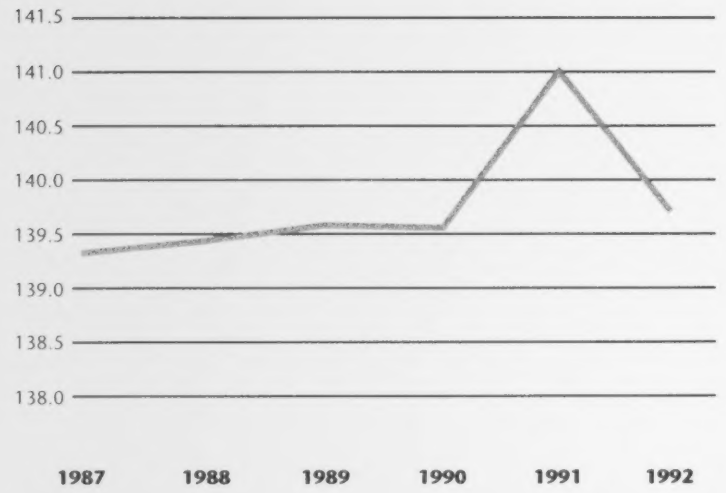
*Standard Industrial Classification

# Corrugated Production by Type of Board

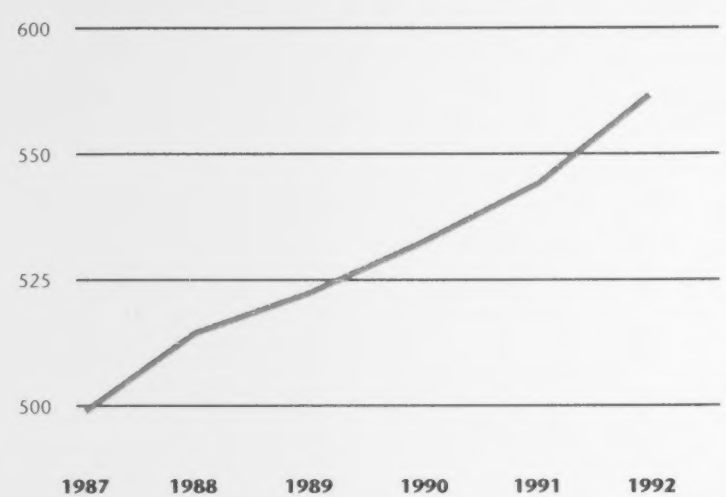
Billions of Square Feet

| Year | Single Face | % of Total | Single Wall | % of Total | Double Wall | % of Total | Triple Wall | % of Total | Total |
|---|---|---|---|---|---|---|---|---|---|
| 1940 | 1.139 | 3.2 | 33.660 | 94.5 | .819 | 2.3 | --- | --- | 35.618 |
| 1950 | 1.880 | 2.4 | 71.740 | 92.6 | 3.860 | 5.0 | --- | --- | 77.480 |
| 1960 | 1.648 | 1.5 | 104.206 | 93.1 | 6.063 | 5.4 | --- | --- | 111.917 |
| 1970 | 1.548 | 0.8 | 177.087 | 91.9 | 14.105 | 7.3 | --- | --- | 192.740 |
| 1971 | 1.461 | 0.7 | 183.775 | 91.7 | 15.119 | 7.6 | --- | --- | 200.355 |
| 1972 | 1.567 | 0.7 | 200.902 | 91.3 | 17.641 | 8.0 | --- | --- | 220.110 |
| 1973 | 1.490 | 0.6 | 216.841 | 90.9 | 20.196 | 8.5 | --- | --- | 238.527 |
| 1974 | 1.492 | 0.7 | 203.449 | 90.8 | 19.154 | 8.5 | --- | --- | 224.095 |
| 1975 | 1.166 | 0.6 | 186.172 | 91.6 | 15.892 | 7.8 | --- | --- | 203.230 |
| 1976 | 1.305 | 0.6 | 207.880 | 91.2 | 18.633 | 8.2 | --- | --- | 227.818 |
| 1977 | 1.216 | 0.5 | 217.184 | 91.0 | 20.401 | 8.5 | --- | --- | 238.801 |
| 1978 | 1.265 | 0.5 | 232.827 | 90.8 | 22.309 | 8.7 | --- | --- | 256.401 |
| 1979 | 1.166 | 0.4 | 236.670 | 90.7 | 23.236 | 8.9 | --- | --- | 261.072 |
| 1980 | 1.144 | 0.5 | 229.054 | 90.9 | 21.741 | 8.6 | --- | --- | 251.939 |
| 1981 | 1.126 | 0.5 | 229.808 | 90.8 | 22.098 | 8.7 | --- | --- | 253.032 |
| 1982 | 1.188 | 0.5 | 224.180 | 91.0 | 20.921 | 8.5 | --- | --- | 246.289 |
| 1983 | 1.232 | 0.5 | 240.302 | 90.9 | 22.669 | 8.6 | --- | --- | 264.203 |
| 1984 | 1.111 | 0.4 | 256.158 | 90.8 | 24.053 | 8.5 | .696 | 0.3 | 282.018 |
| 1985 | 1.421 | 0.5 | 258.910 | 90.9 | 23.729 | 8.3 | .750 | 0.3 | 284.810 |
| 1986 | 1.445 | 0.5 | 274.559 | 90.9 | 25.134 | 8.3 | .857 | 0.3 | 301.995 |
| 1987 | 1.489 | 0.5 | 289.388 | 90.8 | 26.768 | 8.4 | .850 | 0.3 | 318.495 |
| 1988 | 1.353 | 0.4 | 299.286 | 90.9 | 27.770 | 8.4 | .925 | 0.3 | 329.334 |
| 1989 | 1.651 | 0.5 | 306.127 | 91.0 | 27.671 | 8.2 | .854 | 0.3 | 336.303 |
| 1990 | 2.247 | 0.6 | 310.378 | 90.5 | 29.412 | 8.6 | .917 | 0.3 | 342.953 |
| 1991 | 2.437 | 0.7 | 312.851 | 90.7 | 28.789 | 8.3 | .925 | 0.3 | 345.002 |
| 1992 | 4.109 | 1.1 | 325.115 | 90.3 | 29.964 | 8.3 | 1.049 | 0.3 | 360.237 |

**Average Basis Weight of Production** — Pounds Per Thousand Square Feet

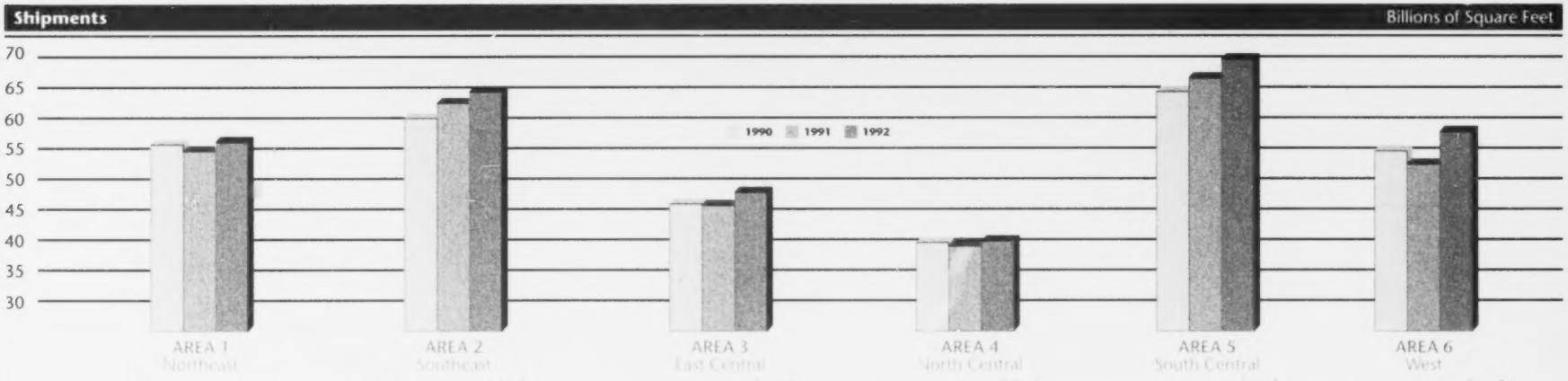



**Average Corrugator Plant Production** — Millions of Square Feet



Billions of Square Feet

# Shipments by Area




| YEAR | Total | % of Industry | Total | % of Industry | Total | % of Industry | Total | % of Industry | Total | % of Industry | Total | % of Industry |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1940 | 11.602 | 32.1 | 1.545 | 4.3 | 11.044 | 30.6 | 5.729 | 15.9 | 3.882 | 10.7 | 2.309 | 6.4 |
| 1950 | 23.735 | 30.3 | 6.282 | 8.0 | 19.946 | 25.4 | 11.780 | 15.0 | 9.695 | 12.4 | 6.955 | 8.9 |
| 1960 | 29.704 | 27.3 | 11.044 | 10.1 | 23.317 | 21.4 | 15.749 | 14.5 | 14.946 | 13.7 | 14.172 | 13.0 |
| 1970 | 44.038 | 23.8 | 25.040 | 13.6 | 35.194 | 19.0 | 24.820 | 13.4 | 28.998 | 15.7 | 26.774 | 14.5 |
| 1971 | 44.813 | 23.4 | 27.163 | 14.2 | 36.374 | 18.9 | 25.877 | 13.5 | 30.248 | 15.8 | 27.356 | 14.2 |
| 1972 | 48.382 | 22.8 | 30.957 | 14.6 | 40.248 | 19.0 | 28.513 | 13.5 | 33.788 | 15.9 | 30.038 | 14.2 |
| 1973 | 51.019 | 22.4 | 33.561 | 14.7 | 42.689 | 18.7 | 30.760 | 13.5 | 37.083 | 16.3 | 32.941 | 14.4 |
| 1974 | 48.537 | 22.5 | 31.599 | 14.6 | 39.146 | 18.1 | 28.944 | 13.4 | 35.099 | 16.2 | 32.747 | 15.2 |
| 1975 | 42.183 | 21.7 | 29.403 | 15.1 | 34.134 | 17.6 | 25.541 | 13.2 | 32.092 | 16.5 | 30.976 | 15.9 |
| 1976 | 46.697 | 21.6 | 32.809 | 15.2 | 38.326 | 17.7 | 28.471 | 13.2 | 36.220 | 16.7 | 33.848 | 15.6 |
| 1977 | 48.301 | 21.3 | 35.187 | 15.5 | 39.845 | 17.5 | 29.611 | 13.0 | 38.646 | 17.0 | 35.609 | 15.7 |
| 1978 | 52.275 | 21.4 | 38.796 | 15.9 | 41.433 | 17.0 | 31.368 | 12.9 | 41.753 | 17.1 | 38.273 | 15.7 |
| 1979 | 53.322 | 21.3 | 41.586 | 16.6 | 41.071 | 16.4 | 31.819 | 12.7 | 43.175 | 17.2 | 39.670 | 15.8 |
| 1980 | 50.551 | 20.9 | 41.284 | 17.1 | 36.912 | 15.3 | 30.147 | 12.5 | 42.867 | 17.8 | 39.616 | 16.4 |
| 1981 | 50.100 | 20.4 | 41.651 | 16.9 | 37.618 | 15.3 | 30.032 | 12.2 | 45.169 | 18.3 | 41.582 | 16.9 |
| 1982 | 48.006 | 20.4 | 39.744 | 16.9 | 34.263 | 14.6 | 28.795 | 12.2 | 44.408 | 18.9 | 39.969 | 17.0 |
| 1983 | 50.263 | 19.9 | 44.108 | 17.5 | 37.194 | 14.7 | 31.249 | 12.4 | 47.442 | 18.8 | 42.283 | 16.7 |
| 1984 | 51.094 | 19.1 | 47.475 | 17.7 | 40.285 | 15.1 | 32.794 | 12.3 | 51.378 | 19.2 | 44.521 | 16.6 |
| 1985 | 50.078 | 18.7 | 47.958 | 17.9 | 40.281 | 15.1 | 32.731 | 12.2 | 52.110 | 19.5 | 44.295 | 16.6 |
| 1986 | 52.303 | 18.4 | 51.605 | 18.2 | 41.927 | 14.8 | 34.510 | 12.1 | 55.308 | 19.5 | 48.268 | 17.0 |
| 1987 | 54.339 | 18.2 | 54.777 | 18.4 | 43.724 | 14.7 | 35.708 | 12.0 | 58.544 | 19.7 | 50.736 | 17.0 |
| 1988 | 55.571 | 18.0 | 57.527 | 18.6 | 44.487 | 14.4 | 37.882 | 12.3 | 61.052 | 19.8 | 51.990 | 16.9 |
| 1989 | 54.992 | 17.5 | 59.151 | 18.9 | 44.496 | 14.2 | 38.472 | 12.3 | 62.567 | 20.0 | 53.720 | 17.1 |
| 1990 | 55.098 | 17.3 | 59.358 | 18.7 | 46.142 | 14.5 | 39.295 | 12.3 | 64.128 | 20.2 | 54.081 | 17.0 |
| 1991 | 54.324 | 17.0 | 62.286 | 19.4 | 45.640 | 14.2 | 38.954 | 12.2 | 66.505 | 20.8 | 52.397 | 16.4 |
| 1992 | 56.066 | 16.7 | 64.363 | 19.2 | 47.821 | 14.2 | 39.860 | 11.9 | 69.797 | 20.8 | 57.789 | 17.2 |

# Area Shipments

Millions of Square Feet

| By Quarter | 1990 | 1991 | 1992 | 1990 | 1991 | 1992 | 1990 | 1991 | 1992 |
|---|---|---|---|---|---|---|---|---|---|
| 1st Quarter | 13,830.6 | 13,105.9 | 13,757.8 | 15,036.7 | 15,051.9 | 16,302.2 | 11,577.7 | 10,797.7 | 12,105.0 |
| 2nd Quarter | 14,098.9 | 13,915.6 | 14,194.2 | 15,209.4 | 15,517.5 | 16,216.3 | 11,636.0 | 11,471.6 | 12,045.1 |
| 3rd Quarter | 13,818.7 | 13,910.0 | 14,300.3 | 14,519.3 | 15,763.0 | 15,895.0 | 11,759.6 | 11,997.9 | 12,133.0 |
| 4th Quarter | 13,350.2 | 13,392.7 | 13,813.8 | 14,592.0 | 15,953.7 | 15,949.3 | 11,169.0 | 11,372.0 | 11,537.4 |
| **By Month** | | | | | | | | | |
| January | 4,850.5 | 4,583.8 | 4,812.5 | 5,288.6 | 5,417.3 | 5,706.3 | 4,083.0 | 3,969.9 | 4,224.8 |
| February | 4,260.3 | 4,270.5 | 4,241.5 | 4,613.3 | 4,781.2 | 5,158.7 | 3,608.6 | 3,407.0 | 3,841.7 |
| March | 4,719.8 | 4,251.6 | 4,703.8 | 5,134.8 | 4,853.4 | 5,437.2 | 3,886.1 | 3,420.8 | 4,038.5 |
| April | 4,487.6 | 4,777.2 | 4,784.8 | 5,217.9 | 5,437.0 | 5,663.0 | 3,843.8 | 3,984.6 | 4,146.6 |
| May | 4,838.0 | 4,625.2 | 4,502.6 | 5,158.2 | 5,179.8 | 5,227.0 | 3,969.8 | 3,790.2 | 3,816.7 |
| June | 4,773.3 | 4,513.2 | 4,906.8 | 4,833.3 | 4,900.7 | 5,326.3 | 3,822.4 | 3,696.8 | 4,081.8 |
| July | 4,432.9 | 4,598.7 | 4,798.3 | 4,896.8 | 5,270.0 | 5,389.7 | 3,807.4 | 3,955.6 | 4,024.9 |
| August | 4,949.3 | 4,770.8 | 4,758.6 | 5,031.8 | 5,303.3 | 5,209.6 | 4,188.4 | 4,130.1 | 4,040.3 |
| September | 4,436.5 | 4,540.5 | 4,743.4 | 4,590.7 | 5,189.7 | 5,295.7 | 3,763.8 | 3,912.2 | 4,067.8 |
| October | 5,283.6 | 5,260.7 | 5,125.2 | 5,761.1 | 6,126.1 | 5,776.7 | 4,487.0 | 4,529.3 | 4,418.6 |
| November | 4,362.3 | 4,261.8 | 4,357.7 | 4,761.0 | 5,043.5 | 5,056.4 | 3,631.9 | 3,571.0 | 3,625.8 |
| December | 3,704.3 | 3,870.2 | 4,330.9 | 4,069.9 | 4,784.1 | 5,116.2 | 3,050.1 | 3,271.7 | 3,493.0 |
| **Total** | 55,098.3 | 54,324.2 | 56,066.1 | 59,357.5 | 62,286.1 | 64,362.8 | 46,142.4 | 45,639.2 | 47,820.5 |
| **By Average Week** | | | | | | | | | |
| January | 1,102.4 | 1,041.8 | 1,093.7 | 1,201.9 | 1,231.2 | 1,296.9 | 928.0 | 902.2 | 960.2 |
| February | 1,065.1 | 1,067.6 | 1,060.4 | 1,153.3 | 1,195.3 | 1,289.7 | 902.2 | 851.8 | 960.4 |
| March | 1,072.7 | 1,062.9 | 1,069.0 | 1,167.0 | 1,213.4 | 1,235.7 | 883.2 | 855.2 | 917.8 |
| April | 1,121.9 | 1,085.7 | 1,139.2 | 1,304.5 | 1,235.7 | 1,348.3 | 960.9 | 905.6 | 987.3 |
| May | 1,099.5 | 1,051.2 | 1,125.6 | 1,172.3 | 1,177.2 | 1,306.7 | 902.2 | 861.4 | 954.2 |
| June | 1,136.5 | 1,128.3 | 1,115.2 | 1,150.8 | 1,225.2 | 1,210.5 | 910.1 | 924.2 | 927.7 |
| July | 1,055.5 | 1,094.9 | 1,090.5 | 1,165.9 | 1,254.8 | 1,224.9 | 906.5 | 941.8 | 914.7 |
| August | 1,075.9 | 1,084.3 | 1,133.0 | 1,093.9 | 1,205.3 | 1,240.4 | 910.5 | 938.7 | 962.0 |
| September | 1,167.5 | 1,135.1 | 1,129.4 | 1,208.1 | 1,297.4 | 1,260.9 | 990.5 | 978.0 | 968.5 |
| October | 1,148.6 | 1,143.6 | 1,164.8 | 1,252.4 | 1,331.8 | 1,312.9 | 975.4 | 984.6 | 1,004.2 |
| November | 1,090.6 | 1,121.5 | 1,146.8 | 1,190.3 | 1,327.2 | 1,330.6 | 908.0 | 939.8 | 954.2 |
| December | 1,029.0 | 967.6 | 1,082.7 | 1,130.5 | 1,196.0 | 1,279.1 | 847.3 | 817.9 | 873.3 |
| **Average** | 1,097.6 | 1,082.2 | 1,112.4 | 1,182.4 | 1,240.8 | 1,277.0 | 919.2 | 909.1 | 948.8 |

Millions of Square Feet

# Area Shipments

| | AREA 4 - North Central | | | AREA 5 - South Central | | | AREA 6 - West | | |
|---|---|---|---|---|---|---|---|---|---|
| **By Quarter** | 1990 | 1991 | 1992 | 1990 | 1991 | 1992 | 1990 | 1991 | 1992 |
| 1st Quarter | 9,696.8 | 9,423.6 | 9,768.6 | 15,953.6 | 15,837.9 | 17,418.7 | 12,960.2 | 11,876.2 | 13,557.2 |
| 2nd Quarter | 9,765.2 | 9,661.2 | 9,807.5 | 16,069.0 | 16,561.6 | 17,527.5 | 14,202.7 | 13,572.8 | 15,424.6 |
| 3rd Quarter | 10,109.4 | 10,162.5 | 10,397.5 | 16,279.2 | 17,345.0 | 17,556.1 | 14,097.6 | 14,154.8 | 15,164.7 |
| 4th Quarter | 9,723.5 | 9,706.8 | 9,886.4 | 15,826.4 | 16,760.7 | 17,294.5 | 12,820.8 | 12,793.4 | 13,643.0 |
| **By Month** | | | | | | | | | |
| January | 3,448.7 | 3,477.5 | 3,422.9 | 5,555.2 | 5,758.0 | 6,171.2 | 4,579.8 | 4,236.6 | 4,839.0 |
| February | 2,991.2 | 3,001.2 | 3,027.9 | 4,982.3 | 5,001.7 | 5,348.0 | 3,901.2 | 3,679.6 | 4,127.7 |
| March | 3,256.9 | 2,944.9 | 3,317.8 | 5,416.1 | 5,078.2 | 5,899.5 | 4,479.2 | 3,960.0 | 4,590.5 |
| April | 3,188.5 | 3,348.4 | 3,340.6 | 5,319.6 | 5,781.4 | 6,141.9 | 4,816.0 | 4,694.2 | 5,367.8 |
| May | 3,296.0 | 3,236.3 | 3,125.0 | 5,512.8 | 5,590.4 | 5,574.0 | 4,820.8 | 4,531.5 | 4,873.1 |
| June | 3,280.7 | 3,076.5 | 3,341.9 | 5,236.6 | 5,189.8 | 5,811.6 | 4,565.9 | 4,347.1 | 5,183.7 |
| July | 3,327.7 | 3,336.0 | 3,504.5 | 5,373.6 | 5,790.5 | 5,999.4 | 4,836.7 | 4,896.1 | 5,448.8 |
| August | 3,561.7 | 3,480.1 | 3,429.9 | 5,763.5 | 5,905.0 | 5,764.4 | 4,818.6 | 4,712.2 | 4,845.7 |
| September | 3,220.0 | 3,346.4 | 3,463.1 | 5,142.1 | 5,649.5 | 5,792.2 | 4,442.3 | 4,546.5 | 4,870.2 |
| October | 3,829.2 | 3,893.9 | 3,724.3 | 6,225.8 | 6,464.6 | 6,519.5 | 5,169.1 | 5,083.6 | 5,261.8 |
| November | 3,180.6 | 3,014.5 | 3,089.9 | 5,140.1 | 5,306.2 | 5,366.5 | 4,072.8 | 3,963.4 | 4,265.7 |
| December | 2,713.7 | 2,798.4 | 3,072.2 | 4,460.5 | 4,989.9 | 5,408.6 | 3,578.9 | 3,746.4 | 4,115.5 |
| **Total** | 39,294.7 | 38,954.1 | 39,860.0 | 64,128.3 | 66,505.2 | 69,796.8 | 54,081.2 | 52,397.2 | 57,789.5 |
| **By Average Week** | | | | | | | | | |
| January | 783.8 | 790.3 | 777.9 | 1,262.5 | 1,308.6 | 1,402.5 | 1,040.9 | 962.9 | 1,099.8 |
| February | 747.8 | 750.3 | 757.0 | 1,245.6 | 1,250.4 | 1,337.0 | 975.3 | 919.9 | 1,031.9 |
| March | 740.2 | 736.2 | 754.0 | 1,230.9 | 1,269.6 | 1,341.0 | 1,018.0 | 990.0 | 1,043.3 |
| April | 797.1 | 761.0 | 795.4 | 1,329.9 | 1,314.0 | 1,462.4 | 1,204.0 | 1,066.9 | 1,278.0 |
| May | 749.1 | 735.5 | 781.2 | 1,252.9 | 1,270.5 | 1,393.5 | 1,095.6 | 1,029.9 | 1,218.3 |
| June | 781.1 | 769.1 | 759.5 | 1,246.8 | 1,297.5 | 1,320.8 | 1,087.1 | 1,086.8 | 1,178.1 |
| July | 792.3 | 794.3 | 796.5 | 1,279.4 | 1,378.7 | 1,363.5 | 1,151.6 | 1,165.7 | 1,238.4 |
| August | 774.3 | 790.9 | 816.6 | 1,252.9 | 1,342.0 | 1,372.5 | 1,047.5 | 1,071.0 | 1,153.7 |
| September | 847.4 | 836.6 | 824.6 | 1,353.2 | 1,412.4 | 1,379.1 | 1,169.0 | 1,136.6 | 1,159.6 |
| October | 832.4 | 846.5 | 846.4 | 1,353.4 | 1,405.4 | 1,481.7 | 1,123.7 | 1,105.1 | 1,195.9 |
| November | 795.2 | 793.3 | 813.1 | 1,285.0 | 1,396.4 | 1,412.2 | 1,018.2 | 1,043.0 | 1,122.5 |
| December | 753.8 | 699.6 | 768.1 | 1,239.0 | 1,247.5 | 1,352.1 | 994.1 | 936.6 | 1,028.9 |
| **Average** | 782.8 | 776.0 | 790.9 | 1,277.5 | 1,324.8 | 1,384.9 | 1,077.3 | 1,043.8 | 1,146.6 |

# Containerboard Production & Consumption

Thousands of Tons

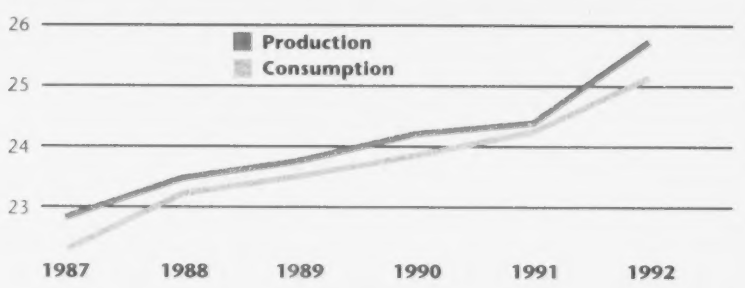
## Production for Domestic Use*

| YEAR | TOTAL | LINERBOARD | | | CORRUGATING MEDIUM | | |
|---|---|---|---|---|---|---|---|
| | | Kraft | Recycled | Total | Semi-chemical | Recycled | Total |
| 1940 | 2,869.3 | 1,169.5 | 796.4 | 1,965.9 | 611.4 | 292.0 | 903.4 |
| 1950 | 5,379.0 | 2,787.2 | 921.8 | 3,709.0 | 945.6 | 724.4 | 1,670.0 |
| 1960 | 7,935.8 | 4,731.2 | 743.6 | 5,474.8 | 1,788.9 | 672.1 | 2,461.0 |
| 1970 | 13,667.1 | 9,133.4 | 269.7 | 9,403.1 | 3,404.7 | 859.3 | 4,264.0 |
| 1971 | 14,050.5 | 9,249.1 | 281.7 | 9,530.8 | 3,580.2 | 939.5 | 4,519.7 |
| 1972 | 15,703.1 | 10,577.6 | 278.9 | 10,856.5 | 3,874.2 | 972.3 | 4,846.5 |
| 1973 | 16,611.0 | 11,066.9 | 289.1 | 11,355.9 | 4,126.5 | 1,128.5 | 5,255.0 |
| 1974 | 16,484.7 | 10,838.4 | 467.1 | 11,305.4 | 4,010.3 | 1,169.0 | 5,179.2 |
| 1975 | 14,303.6 | 9,646.9 | 207.3 | 9,854.2 | 3,579.4 | 870.0 | 4,449.3 |
| 1976 | 16,437.3 | 11,093.2 | 282.7 | 11,375.9 | 3,986.5 | 1,075.1 | 5,061.5 |
| 1977 | 16,903.6 | 11,354.4 | 341.3 | 11,695.7 | 4,128.2 | 1,079.7 | 5,207.9 |
| 1978 | 17,636.7 | 11,877.2 | 256.4 | 12,133.7 | 4,305.3 | 1,197.7 | 5,503.1 |
| 1979 | 18,595.5 | 12,417.3 | 402.3 | 12,819.6 | 4,573.6 | 1,202.3 | 5,775.9 |
| 1980 | 17,838.7 | 11,948.6 | 444.5 | 12,393.1 | 4,398.5 | 1,047.1 | 5,445.6 |
| 1981 | 18,780.5 | 12,754.3 | 324.2 | 13,078.5 | 4,561.2 | 1,140.9 | 5,702.1 |
| 1982 | 17,277.3 | 11,656.5 | 279.0 | 11,935.5 | 4,202.5 | 1,139.3 | 5,341.8 |
| 1983 | 18,962.8 | 12,835.6 | 289.1 | 13,124.7 | 4,532.7 | 1,305.4 | 5,838.1 |
| 1984 | 20,676.7 | 14,068.8 | 203.7 | 14,272.5 | 5,018.9 | 1,385.4 | 6,404.3 |
| 1985 | 20,008.3 | 13,467.1 | 285.8 | 13,752.9 | 4,896.6 | 1,358.8 | 6,255.4 |
| 1986 | 21,395.5 | 14,288.6 | 420.3 | 14,708.9 | 5,160.8 | 1,525.8 | 6,686.6 |
| 1987 | 22,990.3 | 15,497.9 | 478.3 | 15,976.2 | 5,407.0 | 1,607.1 | 7,014.1 |
| 1988 | 23,528.2 | 15,770.6 | 406.7 | 16,177.3 | 5,527.7 | 1,823.2 | 7,350.9 |
| 1989 | 23,738.0 | 16,011.1 | 388.2 | 16,399.3 | 5,553.5 | 1,785.2 | 7,338.7 |
| 1990 R | 24,424.6 | 16,552.7 | 322.7 | 16,875.4 | 5,567.4 | 1,981.8 | 7,549.2 |
| 1991 R | 24,484.2 | 16,383.1 | 622.6 | 17,005.7 | 5,486.6 | 1,991.9 | 7,478.5 |
| 1992 P | 25,699.3 | 17,042.5 | 781.5 | 17,824.0 | 5,721.4 | 2,153.9 | 7,875.3 |

**NOTE:** The apparent disparity between containerboard production, consumption and inventories is attributable to two factors: (1) about 4% of production is diverted to other uses such as tube/stock, composite cans/drums; (2) production includes container chip which is not consumed on solid fibre pasters. *Source: American Forest and Paper Association

## Production vs Consumption

Millions of Tons



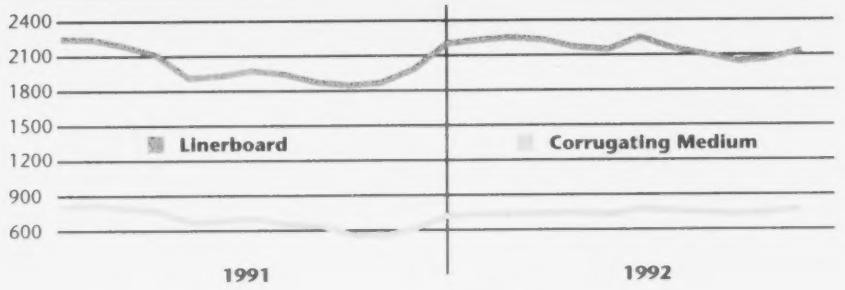

## Consumption by Corrugator Plants

| YEAR | TOTAL | LINERBOARD | CORRUGATING MEDIUM | FILLER BOARD |
|---|---|---|---|---|
| 1940 | 3,113.7 | 1,985.3 | 865.2 | 263.2 |
| 1950 | 5,870.8 | 3,830.7 | 1,739.0 | 301.1 |
| 1960 | 7,901.3 | 5,361.6 | 2,422.2 | 117.5 |
| 1970 | 13,267.5 | 9,079.0 | 4,107.1 | 81.4 |
| 1971 | 13,806.8 | 9,465.2 | 4,273.4 | 68.2 |
| 1972 | 15,189.4 | 10,428.8 | 4,697.7 | 62.9 |
| 1973 | 16,446.4 | 11,315.1 | 5,059.7 | 71.6 |
| 1974 | 15,428.8 | 10,621.2 | 4,746.2 | 61.4 |
| 1975 | 13,975.4 | 9,609.1 | 4,320.2 | 46.1 |
| 1976 | 15,677.1 | 10,782.0 | 4,844.4 | 50.7 |
| 1977 | 16,464.1 | 11,318.3 | 5,102.5 | 43.3 |
| 1978 | 17,708.7 | 12,168.4 | 5,494.7 | 45.6 |
| 1979 | 18,159.7 | 12,456.0 | 5,654.5 | 49.2 |
| 1980 | 17,489.5 | 12,018.5 | 5,427.4 | 43.6 |
| 1981 | 17,821.2 | 12,262.4 | 5,530.4 | 28.4 |
| 1982 | 17,117.9 | 11,751.3 | 5,337.4 | 29.2 |
| 1983 | 18,395.7 | 12,594.4 | 5,767.7 | 33.6 |
| 1984 | 19,672.7 | 13,460.9 | 6,176.6 | 35.2 |
| 1985 | 19,902.5 | 13,604.7 | 6,267.3 | 30.5 |
| 1986 | 21,134.3 | 14,414.0 | 6,689.3 | 31.0 |
| 1987 | 22,393.4 | 15,276.0 | 7,085.9 | 31.5 |
| 1988 | 23,103.3 | 15,751.0 | 7,317.3 | 35.0 |
| 1989 | 23,568.5 | 16,036.7 | 7,487.7 | 44.2 |
| 1990 | 23,985.8 | 16,242.2 | 7,691.1 | 52.5 |
| 1991 | 24,378.6 | 16,555.2 | 7,771.3 | 52.1 |
| 1992 | 25,199.3 | 17,062.4 | 8,074.5 | 62.4 |

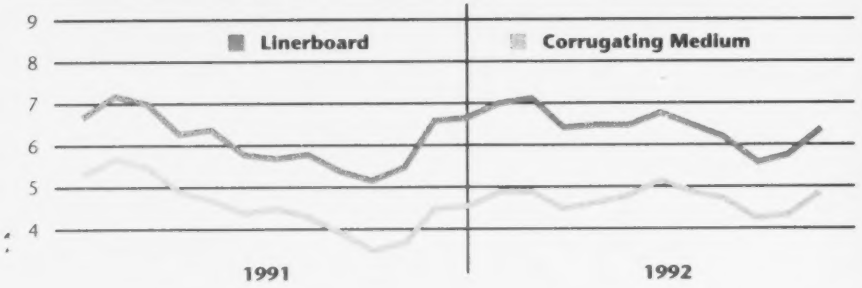
Thousands of Tons

# Containerboard Inventory as of End of Month

**Tonnage**




**Weeks of Supply**




| 1991 | Jan. | Feb. | Mar. | Apr. | May | June | July | Aug. | Sept. | Oct. | Nov. | Dec |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Linerboard: | | | | | | | | | | | | |
| Corrugator Plants | 1,985.8 | 1,966.9 | 1,866.9 | 1,789.6 | 1,595.0 | 1,660.4 | 1,729.1 | 1,726.3 | 1,686.3 | 1,674.1 | 1,666.1 | 1,796.7 |
| Mills* | 278.7 | 298.2 | 325.7 | 316.6 | 311.0 | 273.1 | 242.8 | 213.9 | 196.3 | 181.4 | 207.8 | 201.2 |
| Total | 2,264.5 | 2,265.1 | 2,192.6 | 2,106.2 | 1,906.0 | 1,933.5 | 1,971.9 | 1,940.2 | 1,882.6 | 1,855.5 | 1,873.9 | 1,997.9 |
| Weeks of Supply | 6.7 | 7.2 | 7.0 | 6.3 | 6.4 | 5.8 | 5.7 | 5.8 | 5.4 | 5.2 | 5.5 | 6.6 |
| Corrugating Medium: | | | | | | | | | | | | |
| Corrugator Plants | 775.0 | 775.5 | 740.1 | 712.4 | 624.3 | 645.9 | 678.7 | 630.8 | 616.5 | 557.8 | 551.7 | 608.7 |
| Mills | 51.4 | 61.9 | 64.6 | 58.0 | 52.2 | 52.7 | 43.2 | 38.1 | 37.3 | 30.8 | 36.3 | 32.2 |
| Total | 826.4 | 837.4 | 804.7 | 770.4 | 676.5 | 698.6 | 721.9 | 668.9 | 653.8 | 588.6 | 588.0 | 640.9 |
| Weeks of Supply | 5.3 | 5.7 | 5.5 | 4.9 | 4.7 | 4.4 | 4.5 | 4.3 | 3.9 | 3.5 | 3.7 | 4.5 |
| Filler Board: | 2.2 | 4.1 | 4.9 | 3.7 | 3.7 | 2.8 | 4.6 | 1.8 | 2.9 | 5.9 | 5.8 | 6.0 |
| Total: | 3,093.1 | 3,106.6 | 3,002.2 | 2,880.3 | 2,586.2 | 2,634.9 | 2,698.4 | 2,610.9 | 2,539.3 | 2,450.0 | 2,467.7 | 2,644.8 |
| Weeks of Supply: | | | | | | | | | | | | |
| Corrugator Plants | 5.6 | 5.9 | 5.7 | 5.1 | 5.0 | 4.7 | 4.8 | 4.8 | 4.4 | 4.3 | 4.5 | 5.4 |
| Mills | .7 | .8 | .8 | .8 | .8 | .6 | .5 | .6 | .5 | .4 | .4 | .5 |
| Total | 6.3 | 6.7 | 6.5 | 5.9 | 5.8 | 5.3 | 5.3 | 5.4 | 4.9 | 4.7 | 4.9 | 5.9 |

| 1992 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Linerboard: | | | | | | | | | | | | |
| Corrugator Plants | 1,966.7 | 1,999.4 | 1,994.1 | 1,935.2 | 1,890.1 | 1,854.0 | 1,979.4 | 1,880.6 | 1,838.4 | 1,759.0 | 1,792.5 | 1,832.8 |
| Mills | 241.6 | 268.4 | 290.9 | 314.0 | 309.7 | 301.4 | 301.9 | 307.5 | 262.8 | 278.7 | 274.4 | 302.4 |
| Total | 2,208.3 | 2,267.8 | 2,285.0 | 2,249.2 | 2,199.8 | 2,155.4 | 2,281.3 | 2,188.1 | 2,101.2 | 2,037.7 | 2,066.9 | 2,135.2 |
| Weeks of Supply | 6.7 | 7.0 | 7.1 | 6.4 | 6.5 | 6.0 | 6.8 | 6.5 | 6.2 | 5.6 | 5.8 | 6.4 |
| Corrugating Medium: | | | | | | | | | | | | |
| Corrugator Plants | 690.6 | 725.6 | 724.8 | 725.6 | 690.2 | 714.8 | 764.4 | 740.0 | 733.5 | 692.5 | 702.1 | 721.5 |
| Mills | 28.9 | 31.2 | 33.1 | 31.3 | 33.5 | 33.8 | 33.1 | 37.3 | 35.2 | 38.4 | 46.8 | 52.4 |
| Total | 738.0 | 780.9 | 792.9 | 783.9 | 753.8 | 748.6 | 797.7 | 777.3 | 768.7 | 730.9 | 748.9 | 773.9 |
| Weeks of Supply | 4.6 | 5.0 | 5.0 | 4.5 | 4.7 | 4.8 | 5.1 | 4.9 | 4.8 | 4.2 | 4.4 | 4.9 |
| Filler Board: | 4.7 | 5.6 | 5.6 | 5.5 | 5.5 | 3.9 | 4.5 | 4.3 | 3.3 | 4.0 | 4.6 | 7.1 |
| Total: | 2,951.0 | 3,054.3 | 3,083.5 | 3,038.6 | 2,959.5 | 2,907.9 | 3,083.5 | 2,969.4 | 2,875.9 | 2,773.1 | 2,821.2 | 2,918.4 |
| Weeks of Supply: | | | | | | | | | | | | |
| Corrugator Plants | 5.6 | 5.7 | 5.7 | 5.5 | 5.2 | 5.3 | 5.6 | 5.3 | 5.1 | 4.6 | 4.8 | 5.2 |
| Mills | .6 | .6 | .7 | .7 | .7 | .7 | .7 | .7 | .6 | .6 | .6 | .7 |
| Total | 6.1 | 6.3 | 6.4 | 6.2 | 5.9 | 6.0 | 6.3 | 6.0 | 5.7 | 5.2 | 5.4 | 5.9 |

*Source — All mill data: American Forest and Paper Association

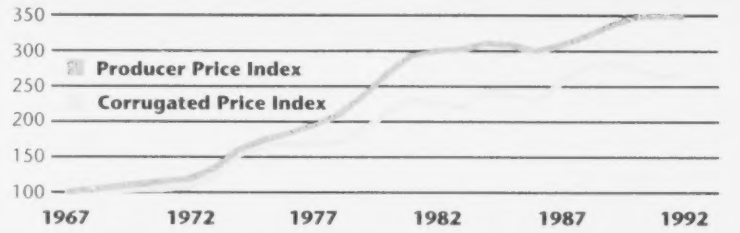
# Corrugated Price & Producer Price Index

1967 = 100

| Year | 1st QTR | 2nd QTR | 3rd QTR | 4th QTR | Year | P.P.I.* |
|---|---|---|---|---|---|---|
| 1940 | 39.2 | 39.1 | 39.0 | 38.9 | 39.1 | 40.5 |
| 1950 | 74.1 | 73.5 | 76.8 | 91.2 | 79.3 | 81.8 |
| 1960 | 98.8 | 98.2 | 96.3 | 97.0 | 97.4 | 94.9 |
| 1970 | 105.3 | 104.9 | 103.8 | 105.0 | 104.8 | 110.4 |
| 1971 | 104.4 | 104.7 | 103.4 | 104.1 | 104.2 | 113.9 |
| 1972 | 104.2 | 106.7 | 107.0 | 110.8 | 107.4 | 119.1 |
| 1973 | 114.1 | 120.2 | 124.7 | 129.8 | 122.5 | 134.7 |
| 1974 | 135.4 | 147.7 | 161.0 | 170.6 | 153.2 | 160.1 |
| 1975 | 168.1 | 166.0 | 163.7 | 165.0 | 165.5 | 174.9 |
| 1976 | 169.0 | 170.9 | 168.9 | 169.6 | 169.6 | 183.0 |
| 1977 | 167.4 | 168.2 | 168.6 | 168.4 | 168.2 | 194.2 |
| 1978 | 164.7 | 165.7 | 166.9 | 174.5 | 168.1 | 209.3 |
| 1979 | 178.6 | 187.3 | 190.3 | 199.6 | 188.9 | 235.6 |
| 1980 | 209.7 | 214.3 | 212.9 | 214.4 | 212.8 | 268.8 |
| 1981 | 222.8 | 232.5 | 232.4 | 232.6 | 230.0 | 293.4 |
| 1982 | 229.4 | 229.6 | 223.2 | 221.3 | 225.9 | 299.4 |
| 1983 | 217.3 | 218.6 | 217.2 | 224.8 | 219.5 | 303.1 |
| 1984 | 230.0 | 242.6 | 242.6 | 254.1 | 242.3 | 310.3 |
| 1985 | 254.0 | 246.5 | 231.5 | 227.2 | 239.7 | 308.8 |
| 1986 | 225.1 | 226.6 | 229.6 | 236.0 | 229.4 | 299.8 |
| 1987 | 245.4 | 254.8 | 255.6 | 267.4 | 255.9 | 307.7 |
| 1988 | 268.9 | 279.9 | 281.4 | 283.6 | 278.4 | 320.1 |
| 1989 | 283.9 | 286.8 | 283.7 | 282.4 | 284.2 | 335.9 |
| 1990 | 279.4 | 275.4 | 270.6 | 270.4 | 274.0 | 348.2 |
| 1991 | 267.3 | 260.9 | 257.3 | 265.5 | 262.8 | 348.8 |
| 1992 | 268.5 | 269.6 | 267.5 | 267.2 | 268.2 | 352.8 |

**NOTE:** The Corrugated Price Index is compiled using FBA member company data only.
*Source: Bureau of Labor Statistics

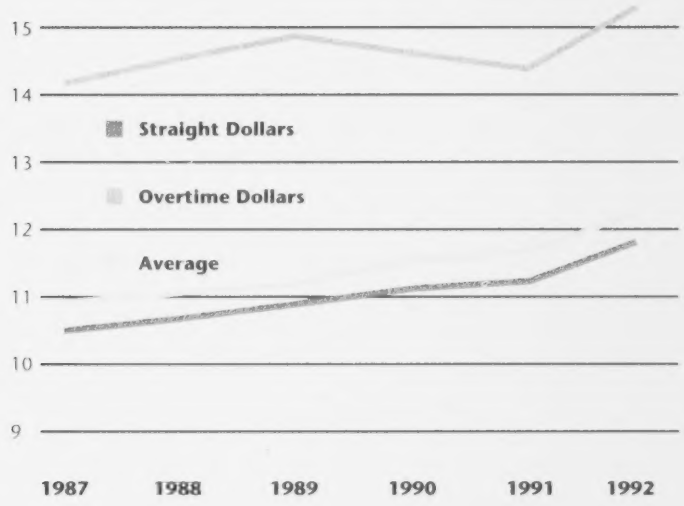
**Corrugated Price Index vs Producer Price Index**



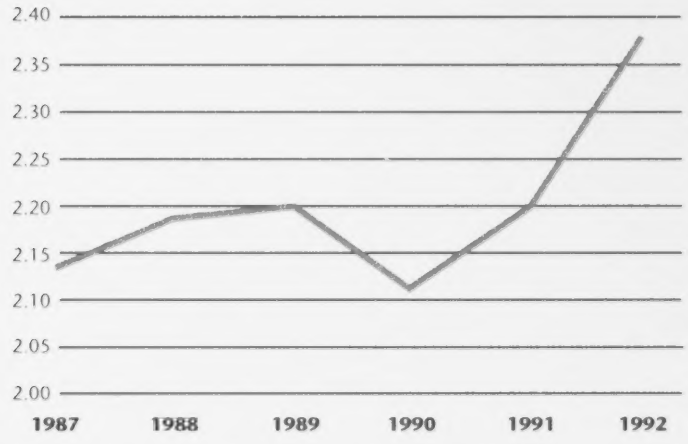

| Corrugated Price Index by Area | 1990 | 1991 | 1992 |
|---|---|---|---|
| **Area 1 - Northeast** | | | |
| 1st Quarter | 271.3 | 255.5 | 258.1 |
| 2nd Quarter | 263.0 | 249.1 | 254.6 |
| 3rd Quarter | 261.1 | 247.8 | 257.1 |
| 4th Quarter | 261.0 | 254.1 | 253.9 |
| YEAR | 264.1 | 251.6 | 255.9 |
| **Area 2 - Southeast** | | | |
| 1st Quarter | 280.8 | 270.4 | 269.3 |
| 2nd Quarter | 278.1 | 259.1 | 268.5 |
| 3rd Quarter | 269.4 | 251.6 | 264.9 |
| 4th Quarter | 276.8 | 266.2 | 268.9 |
| YEAR | 276.4 | 261.8 | 267.9 |
| **Area 3 - East Central** | | | |
| 1st Quarter | 275.9 | 264.1 | 262.2 |
| 2nd Quarter | 270.9 | 257.6 | 262.9 |
| 3rd Quarter | 267.3 | 254.7 | 265.7 |
| 4th Quarter | 264.3 | 261.8 | 264.1 |
| YEAR | 269.7 | 259.5 | 263.7 |
| **Area 4 - North Central** | | | |
| 1st Quarter | 286.6 | 276.3 | 280.1 |
| 2nd Quarter | 281.6 | 269.3 | 281.3 |
| 3rd Quarter | 277.8 | 267.1 | 280.9 |
| 4th Quarter | 280.9 | 273.9 | 278.2 |
| YEAR | 281.7 | 271.7 | 280.1 |
| **Area 5 - South Central** | | | |
| 1st Quarter | 267.6 | 253.7 | 255.8 |
| 2nd Quarter | 261.3 | 244.3 | 253.9 |
| 3rd Quarter | 255.9 | 241.1 | 250.3 |
| 4th Quarter | 254.5 | 252.2 | 250.7 |
| YEAR | 259.8 | 247.8 | 252.7 |
| **Area 6 - West** | | | |
| 1st Quarter | 304.9 | 290.3 | 292.0 |
| 2nd Quarter | 306.6 | 294.8 | 304.3 |
| 3rd Quarter | 303.8 | 291.0 | 296.2 |
| 4th Quarter | 296.0 | 291.2 | 296.2 |
| YEAR | 302.9 | 291.8 | 297.2 |

# Hours, Earnings & Productivity

**Hourly Earnings** — Dollars




**Productivity** — M.S.F. per Hour




## INDUSTRY AVERAGES

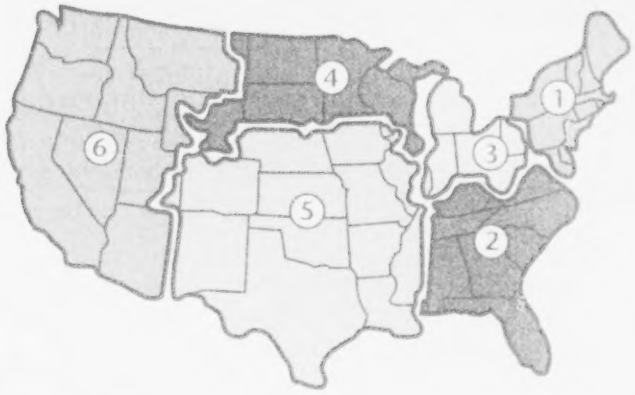
| YEAR | Total No. of Employees | Hours per Week per Employee | Hourly Earnings Total | Hourly Earnings Regular | Hourly Earnings Overtime | Earnings per Week per Employee | M Sq. Ft. Shipments per Wk. per Employee | M Sq. Ft. per Hour | Payroll per M Sq. Ft. All Plants |
|---|---|---|---|---|---|---|---|---|---|
| 1943 | 32,400 | 43.9 | $ .788 | $ .715 | $ 1.130 | $ 34.54 | 28.3 | .65 | $1.22 |
| 1950 | 39,500 | 43.6 | 1.410 | 1.316 | 2.005 | 61.43 | 36.7 | .84 | 1.67 |
| 1960 | 54,600 | 40.9 | 2.324 | 2.224 | 3.238 | 95.21 | 38.7 | .95 | 2.46 |
| 1970 | 74,100 | 40.1 | 3.551 | 3.415 | 4.811 | 142.39 | 46.6 | 1.16 | 3.06 |
| 1971 | 73,400 | 40.9 | 3.833 | 3.684 | 5.083 | 156.75 | 50.5 | 1.24 | 3.10 |
| 1972 | 74,300 | 41.5 | 4.132 | 3.944 | 5.508 | 171.57 | 54.9 | 1.32 | 3.13 |
| 1973 | 77,400 | 40.8 | 4.404 | 4.214 | 5.855 | 179.59 | 57.3 | 1.40 | 3.13 |
| 1974 | 71,900 | 38.3 | 4.725 | 4.566 | 6.428 | 181.02 | 57.4 | 1.50 | 3.16 |
| 1975 | 60,500 | 37.9 | 5.261 | 5.075 | 7.156 | 199.49 | 59.8 | 1.58 | 3.33 |
| 1976 | 65,200 | 38.9 | 5.726 | 5.513 | 7.683 | 222.59 | 63.3 | 1.63 | 3.52 |
| 1977 | 65,100 | 39.5 | 6.265 | 6.030 | 8.384 | 247.59 | 66.5 | 1.68 | 3.72 |
| 1978 | 67,300 | 39.6 | 6.820 | 6.541 | 9.057 | 270.39 | 69.8 | 1.76 | 3.88 |
| 1979 | 67,500 | 39.2 | 7.421 | 7.143 | 9.947 | 291.26 | 74.0 | 1.89 | 3.94 |
| 1980 | 63,600 | 38.2 | 7.968 | 7.697 | 10.823 | 304.16 | 72.4 | 1.90 | 4.20 |
| 1981 | 63,100 | 37.3 | 8.747 | 8.488 | 11.518 | 327.62 | 73.6 | 1.97 | 4.45 |
| 1982 | 59,100 | 36.8 | 9.340 | 9.081 | 12.537 | 343.78 | 74.4 | 2.02 | 4.62 |
| 1983 | 59,600 | 37.8 | 9.803 | 9.472 | 12.777 | 370.69 | 79.9 | 2.11 | 4.84 |
| 1984 | 61,500 | 38.5 | 10.278 | 9.913 | 13.320 | 395.78 | 82.3 | 2.14 | 4.81 |
| 1985 | 63,900 | 37.8 | 10.654 | 10.291 | 13.740 | 402.31 | 81.9 | 2.17 | 4.91 |
| 1986 | 65,900 | 39.3 | 10.683 | 10.251 | 14.142 | 420.24 | 82.7 | 2.10 | 5.08 |
| 1987 | 69,500 | 39.3 | 10.981 | 10.546 | 14.269 | 431.12 | 84.0 | 2.14 | 5.13 |
| 1988 | 71,400 | 39.2 | 11.117 | 10.674 | 14.523 | 436.01 | 85.8 | 2.19 | 5.08 |
| 1989 | 72,200 | 39.0 | 11.373 | 10.924 | 14.880 | 443.86 | 85.8 | 2.20 | 5.17 |
| 1990 | 74,700 | 39.8 | 11.632 | 11.238 | 14.477 | 463.06 | 84.1 | 2.11 | 5.50 |
| 1991 | 72,243 | 39.2 | 11.740 | 11.363 | 14.335 | 460.59 | 86.4 | 2.20 | 5.33 |
| 1992 | 67,573 | 40.1 | 12.308 | 11.884 | 15.452 | 493.94 | 95.0 | 2.37 | 5.20 |

The reports received from the members are advanced to represent the entire industry. The employees represented are production workers, piece workers, watchmen, engineers, working foremen, maintenance workers, etc. The total does not include supervisors, executives, clerical and office employees. The footage includes the total shipments of all corrugator plants but not sheet plants; however, sheet plant labor costs are included. The above data covers only the direct payroll including pay for hours not worked. It does not include cost of pensions, medical insurance, etc.

# Glossary

The Fibre Box Association divides The United States into six Areas for statistical purposes.

Area 1 - Northeast
Area 2 - Southeast
Area 3 - East Central
Area 4 - North Central
Area 5 - South Central
Area 6 - West




Average Week: An average work week for statistical purposes consists of five days, less holidays.

Basis Weight: The average weight of combined corrugated board per thousand square feet is calculated by dividing the weight of containerboard consumption of corrugated board by corrugator production area (in msf).

Containerboard: Paperboard components from which corrugated and solid fibreboard are manufactured.

Container Chip and Filler Board: Paperboard manufactured as a filler for solid fibre, and paperboard for conversion into either single or multi-ply components for interior packing in corrugated or solid fibre boxes.

Corrugator Plant: Produces corrugated board on one or more corrugating machines and may make boxes or other finished products from the board.

Corrugated Price Index: The Corrugated Price Index is calculated by dividing the total dollars of sales of all corrugated products by the area (in msf) of these products, based on member company data only. The price per thousand square feet of all corrugated products shipped by members is then converted to an index, 1967 = 100.

Corrugating Medium: Containerboard used as the fluted member of a corrugated product.

Corrugated Production: The actual total square footage produced on corrugators during the year. It differs from shipments in that production includes waste and trim from finished product fabrication.

Filler Board: See Container Chip and Filler Board.

Kraft Linerboard: Fiber furnish containing not less than eighty percent virgin sulfate woodpulp, produced by the kraft (sulfate) process.

Linerboard: Paperboard used as a facing on corrugated or solid fibre products.

Number of Plants: The data indicates the number of plants in each category which were in operation during all or any part of the year. This is not necessarily the number in operation at year-end.

Producer Price Index: The Bureau of Labor Statistics' Producer Price Index represents the wholesale prices of all commodities, 1967 = 100.

Recycled Corrugating Medium: Fiber furnish containing less than seventy-five percent virgin woodpulp.

Recycled Linerboard: Fiber furnish containing less than eighty percent virgin kraft woodpulp.

Seasonally Adjusted Month: Actual shipments are seasonally adjusted using factors based on experience of the latest and preceding years as per the U.S. Department of Commerce X-11 series.

Seasonal Adjustment: The adjustment factor is a composite of the seasonal factors and the regression trading day adjustment factors. The adjustment is continually revised; factors used in previous years are not identical to those used in 1992.

Semichemical Corrugating Medium: Contains fiber furnish not less than seventy-five percent virgin woodpulp, produced by a semichemical process. Also includes kraft corrugating material.

Sheet Plant: A sheet plant buys corrugated board from a corrugator plant and makes boxes, or other finished products from the board.

Weeks of Supply: Supply of containerboard obtained by dividing inventories by the average weekly consumption in corrugator plants during the month excluding any holidays.

# Fibre Box Association Members

Abbott Box Company
Acorn Corrugated Box Company
Action Container Corporation
Advance Packaging Corporation
    Central Michigan Container
Aeon Box Company, Inc.
AIM Corrugated Container Corporation
Akers Packaging Service, Inc.
    Dyna-Con Div. of Metro Containers
    Hoosier Container, Inc.
    Metro Containers, Inc.
Allegheny Container Corporation
All West Container Company
American Packaging Corporation
American River Packaging, Inc.
Archer Box Company, Inc.
Armor Box Corporation
Arvco Container Corporation
    Arvan Specialty Products
    Arvco Container Corporation of IN
Atlas Container Corporation
Batavia Container, Inc.
Bates Container, Inc.
Beacon Container Corporation
    Beacon Container Corporation of PA
Bell Packaging Corporation
Berenz Packaging Corporation
Bicknell & Fuller Corrugated Container Company
Boise Cascade Corporation
Buckeye Corrugated, Inc.
    All Size Corrugated Products Division
    Buckeye Container
    Com-Tech Packaging
    Koch Container Corporation
    Tennessee Packaging, Inc.
Capital City Container Corporation
Carlisle Container Company
Castle Rock Container Company
Central Container Corporation
Centralia Container, Inc.
Chesapeake Packaging Company
    Chesapeake Display & Packaging Company
    Color-Box, Inc.
Chicago Corrugated Box Company
Colonial Packaging Corporation
Colorado Container Corporation
Commander Packaging Corporation
    Commander Packaging West, Inc.
    Kankakee Container Company
    Packaging Dimensions
Consolidated Packaging Corporation
Container Service Corporation
Cooper Container Corporation
Corrugated Container Corporation
    Corrugated Container Corporation of TN
Corrugated Paper Products, Inc.
Corrugated Supplies Corporation
Crest Packaging, Inc.
Custom Packaging, Inc.
Decatur Container Corporation
DeLine Box Company
    DeLine Box – Windsor, Inc.
Delta Container Corporation
Design Packaging, Inc.
Domtar Packaging
Drake Container Corporation
Dusobox Corporation
Eastern Container Corporation
Elgin Corrugated Box Company
Empire Container Corporation
H. Field & Sons, Inc.
Flint Boxmakers, Inc.
    Delta Containers, Inc.
Four M Corporation
    Cardinal Container Corporation
    Eastern Ohio Packaging
    Grand Container Corporation
    Paperwood Specialties
    Service Container Company
    Timberline Packaging, Inc.
Gaylord Container Corporation
General Corrugated Manufacturing, Inc.
Genesee Packaging & Corrugated, Inc.
Georgia-Pacific Corporation
    J & J Corrugated Box Corporation
Golden Bear Packaging Inc.
Green Bay Packaging, Inc.
Hunter Packaging Corporation
Ideal Box Company
Indiana Boxmakers, Inc.
International Paper Company
Jamestown Container Companies
    Great Lakes Container Corporation
    Medina Division
Jefferson Smurfit Corporation
    Container Corporation of America
    Eastern Tri-Pack Corporation
    Keystone Container Corporation
    Tri-Pack Corporation
Jet Corr Inc.
    Jet Corr Packaging Inc.
    Target Container Company
K & H Corrugated Case Company
    K & H Containers, Inc.
    Vermont Container Corporation
Kell Container Corporation
Kendal Container Corporation
Key Container Corporation
Lakeway Container, Inc.
Lawless Container Corporation
Lawrence Paper Company
    Jayhawk Boxes, Inc.
    Ozark Corrugated Box Company
Liberty Carton Company
Lone Star Container Corporation
Longview Fibre Company
Love Box Company, Inc.
    Lewisburg Container Company
Loy-Lange Box Company
    Heartland Box Company
Mack-Chicago Corporation
MacMillan Bathurst, Inc.
MacMillan Bloedel Containers
    Arkansas Container Corporation
    Bardcor
Mall City Containers, Inc.
Mann Kraft Corporation
Massillon Container Company
    Mount Eaton Packaging Company
Mead Containerboard Division
Menasha Corporation
    North Star Container, Inc.
MICON Packaging Products, Inc.
Middlefield Container Corporation
Midland Container Corporation (Racine)
Midland Container Corporation (St. Louis)
    Midland Color Corporation
Miller Container Corporation
Monarch Box and Paper Company
Nelson Container Corporation
NewCorr Packaging/United Partnership
Nivison-Weiskopf Company
Northeast Box Company
Northeast Container Corporation
Northwest Packaging, Inc.
O'Grady Containers, Inc.
Ohio Packaging Corporation
    Combined Containerboard, Inc.
Pacific Southwest Container, Inc.
Packaging Corporation of America
    American Packaging Corporation
    Ar-Tech Packaging
    Corrugated Container Corporation
    Dixie Container Corporation
    Dura-Box Company
    Packaging Company of CA
    Pakon/Packaging Company of CA
    Western Packaging/PCA
Packaging Innovators Corporation
Packaging Services, Inc.
Packaging Services of MD, Inc.
Page Packaging Corporation
Paragon Packaging Products, Inc.
Pennsylvania Container Corporation
Phoenix Packaging, Inc.
Pride Container Corporation
Republic Container Corporation
Richmond Corrugated Box Company
    Wilmington Box Company
Rock-Tenn Company
    Wiregrass Container, Inc.
Romanow Container
Royal Continental Box Company
Schiffenhaus Industries, Inc.
    Oneida Container
    Schiffenhaus Packaging Corporation
Sealed Air Corp./Korrvu Division
Sebring Container Corporation
Shillington Box Company
Shipping Container Corporation
Southland Box Company
St. Joe Container Company
Stand Fast Packaging, Inc.
Star Corrugated Box Company, Inc.
Stone Container Corporation
    Accurate Corrugated Box
    Cameo Container Corporation
    L & M Corrugated Container
    Orpack-Stone Corporation
Summit Packaging, Inc.
    Nebraska Packaging, Inc.
Sumter Packaging Corporation
Sunbelt Packaging Services, Inc.
Sunclipse, Inc.
    Corru-Kraft II
    Corru-Kraft IV
    Mercury Container Corporation
    Mercury Die and Container
    Midway Container
    Mission Corrugated
    St. Hart Container
Sun King Container, Inc.
Sycamore Containers, Inc.
Thacker Container Company
    California Corrugated Division
The United Group
Thoroughbred Containers, Inc.
Triad Packaging, Inc.
Triad Packaging, Inc. of TN
Triangle Container Corporation
Union Camp Corporation
Viking Container Company
Volk Packaging Corporation
Watertown Box Corporation
Wertheimer Box & Paper Corporation
Weston Paper & Manufacturing Company
    Wabash Fibre Box Company
    Wabash Fibre Box Company – South
        Gibson Container Division
    Wabash Pioneer Container Corporation
Westvaco Corporation
Weyerhaeuser Paper Company
    Tri-Wall Containers, Inc.
Wunderlich Fibre Box Company
York Container Company

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